



Water-Data Report 2009

01411907 WHITE MARSH RUN AT MILLVILLE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°23'23", long 75°02'40" referenced to North American Datum of 1983, Millville City, Cumberland County, NJ, Hydrologic Unit 02040206, at bridge on South Race Street (County Route 555) at Millville, 0.2 mi upstream from mouth, and 1.3 mi northwest of Roosevelt Park.

DRAINAGE AREA.--8.77 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2008 to August 2009

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 17.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 5

[Remark codes: <, less than; E, estimated.]

Date	Time	Baro-metric pressure, mm Hg (00025)	Temper-ature, air, deg C (00020)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	UV absorb-ance, 280 nm, wat flt units /cm (61726)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, µS/cm @ 25 degC (00095)	Turbdty white light, det ang 90+/-30 corrctd	Dis-solved solids, dried @ 180degC wat flt NTRU (63676)	Dis-solved solids, sum of constituents, mg/L (70301)
Dec 09...	1030	769	3.0	.304	.248	10.1	78	6.6	142	4.5	6.0	89
Mar 10...	1030	769	7.5	.246	.197	8.2	70	6.7	131	8.4	6.3	81
May 27...	1045	762	18.0	.246	.200	7.3	72	6.6	143	14.4	12	86
Aug 27...	1030	763	27.5	.309	.248	5.4	60	6.5	141	20.2	11	85

01411907 WHITE MARSH RUN AT MILLVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 5

[Remark codes: <, less than; E, estimated.]

Date	ANC, wat unf						Total			Inor- ganic			
	Hard- ness, water, mg/L as CaCO ₃ (00900)	Sus- pended solids, water, unfltrd mg/L (00530)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	fixed end pt, mg/L as CaCO ₃ (90410)	suspnd lab, mg/L as CaCO ₃ (00694)	carbon, sedimnt total, mg/L (00940)	Chlor- ide, water, fltrd, mg/L (00950)	Fluor- ide, water, fltrd, mg/L (00688)	carbo, suspnd total, mg/L (00955)	Silica, water, fltrd, mg/L (00945)
Dec 09...	26	2	5.40	3.13	3.02	13.3	27	.4	15.9	E.08	<.04	7.4	6.61
Mar 10...	25	4	5.41	2.80	2.62	13.9	23	1.5	16.6	<.08	<.04	5.9	6.57
May 27...	28	4	5.82	3.15	3.02	12.9	28	1.1	16.8	E.07	<.04	6.8	5.72
Aug 27...	28	6	5.88	3.26	3.11	12.4	29	1.1	16.6	<.08	E.03	7.5	5.14

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 5

[Remark codes: <, less than; E, estimated.]

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)		Nitrate + Ammonia water, fltrd, mg/L as N (00608)	Ortho- phosphate, water, fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (49570)	Phos- phorus, water, fltrd, mg/L as P (00666)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd recover -able, mg/L (00600)	Barium, water, unfltrd recover -able, μg/L (01007)	Beryll- ium, water, unfltrd recover -able, μg/L (01012)	Chrom- ium, water, unfltrd recover -able, μg/L (01027)	
Dec 09...	.99	.703	.57	E.007	.03	.010	.018	1.6	1.6	--	--	--	--
Mar 10...	.57	.241	.69	E.003	.12	.008	.020	1.3	1.4	81.8	.04	.07	.71
May 27...	.96	.610	.66	E.003	.07	.008	.029	1.6	1.7	--	--	--	--
Aug 27...	.77	.459	.70	E.005	.07	.009	.030	1.5	1.5	101	.03	E.04	.41

01411907 WHITE MARSH RUN AT MILLVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 5

[Remark codes: <, less than; E, estimated.]

Date	Mangan-												Organic carbon, suspnd sedimnt total, mg/L (00689)
	Copper, water, unfltrd recover -able, μg/L (01042)	Iron, water, unfltrd recover -able, μg/L (01045)	Lead, water, unfltrd recover -able, μg/L (01051)	ese, water, unfltrd recover -able, μg/L (01055)	Mercury water, unfltrd recover -able, μg/L (71900)	Nickel, water, unfltrd recover -able, μg/L (01067)	Silver, water, unfltrd recover -able, μg/L (01077)	Zinc, water, unfltrd recover -able, μg/L (01092)	Arsenic water, filtrd, unfltrd recover -able, μg/L (01000)	Arsenic water, unfltrd recover -able, μg/L (01002)	Boron, water, unfltrd recover -able, μg/L (01022)	Selen- ium, water, unfltrd recover -able, μg/L (01147)	
Dec 09...	--	--	--	--	--	--	--	--	--	--	--	--	.41
Mar 10...	<4.0	1,320	1.30	76.9	.031	1.1	<.06	8.9	.26	.38	307	E.09	1.48
May 27...	--	--	--	--	--	--	--	--	--	--	--	--	1.07
Aug 27...	<4.0	2,380	1.14	134	.029	.88	<.06	6.2	.45	.68	337	E.11	1.07

**WATER-QUALITY
DATA
WATER YEAR
OCTOBER 2008 TO
SEPTEMBER 2009**

Part 5 of 5

[Remark codes:
<, less than;
E, estimated.]

Date	Organic carbon, water, filtrd, mg/L (00681)
Dec 09...	4.4
Mar 10...	4.5
May 27...	4.2
Aug 27...	5.2